Mathematical Foundations of Quantum Statistical Mechanics

Continuous Systems

by

D. Ya. Petrina

Mathematical Foundations Of Clabical Statistical Mechanics

Jean-Bernard Bru,Walter Alberto de Siqueira Pedra

Mathematical Foundations Of Clabical Statistical Mechanics:

Mathematical Foundations of Classical Statistical Mechanics D.Ya. Petrina,V.I. Gerasimenko,P V Malyshev,2002-04-11 This monograph considers systems of infinite number of particles in particular the justification of the procedure of thermodynamic limit transition The authors discuss the equilibrium and non equilibrium states of infinite classical statistical systems Those states are defined in terms of stationary and nonstationary solutions to the Bogolyubov Mathematical Foundations of Classical Statistical Mechanics Dmitriĭ IA̐kovlevich Petrina,Viktor Ivanovich Gerasimenko,1989 Introducing the functional method practiced in the USSR this well translated monograph considers the problem of investigating systems of infinite numbers of particles It discusses the equilibrium and non equilibrium states of infinite classical statistical systems and investigates the thermodynamic limit for non equilibrium systems and of the states of infinite systems for which thermodynamic equivalence is proved Book club price 95 Annotation copyrighted by Book News Inc Portland OR **Mathematical Foundations of Statistical Mechanics** Aleksandr I?Akovlevich Khinchin,1949-01-01 Phase space ergodic problems central limit theorem dispersion and distribution of sum functions Chapters include Geometry and Kinematics of the Phase Space Ergodic Problem Reduction to the Problem of the Theory of Probability Application of the Central Limit Theorem Ideal Monatomic Gas The Foundation of Thermodynamics and more *Mathematical Foundations of Quantum Statistical Mechanics* D.Y. Petrina,2012-12-06 This monograph is devoted to quantum statistical mechanics It can be regarded as a continuation of the book Mathematical Foundations of Classical Statistical Mechanics Continuous Systems Gordon Breach SP 1989 written together with my colleagues V I Gerasimenko and P V Malyshev Taken together these books give a complete pre sentation of the statistical mechanics of continuous systems both quantum and classical from the common point of view Both books have similar contents They deal with the investigation of states of in finite systems which are described by infinite sequences of statistical operators reduced density matrices or Green s functions in the quantum case and by infinite sequences of distribution functions in the classical case The equations of state and their solutions are the main object of investigation in these books For infinite systems the solutions of the equations of state are constructed by using the thermodynamic limit procedure accord ing to which we first find a solution for a system of finitely many particles and then let the number of particles and the volume of a region tend to infinity keeping the density of particles constant However the style of presentation in these books is quite different **Foundations of Statistical Mechanics** Walter Grandy,1987-05-31 In a certain sense this book has been twenty five years in the writing since I first struggled with the foundations of the subject as a graduate student It has taken that long to develop a deep appreciation of what Gibbs was attempting to convey to us near the end of his life and to understand fully the same ideas as resurrected by E T Jaynes much later Many classes of students were destined to help me sharpen these thoughts before I finally felt confident that for me at least the foundations of the subject had been clarified sufficiently More than anything this work strives to address the

following questions What is statistical mechanics Why is this approach so extraordinarily effective in describing bulk matter in terms of its constituents The response given here is in the form of a very definite point of view the principle of maximum entropy PME There have been earlier attempts to approach the subject in this way to be sure reflected in the books by Tribus Thermostat ics and Thermodynamics Van Nostrand 1961 Baierlein Atoms and Information Theory Freeman 1971 and Hobson Concepts in Statistical Mechanics Gordon and Breach 1971 *Mathematical Foundations of Quantum Statistics* Aleksandr Ii̐Ai̐kovlevich Khinchin,1960 Mathematical Physics II: Classical Statistical Mechanics Matteo Petrera,2014 These Lecture Notes provide an introduction to classical statistical mechanics The first part presents classical results mainly due to L Boltzmann and J W Gibbs about equilibrium statistical mechanics of continuous systems Among the topics covered are kinetic theory of gases ergodic problem Gibbsian formalism derivation of thermodynamics phase transitions and thermodynamic limit The second part is devoted to an introduction to the study of classical spin systems with special emphasis on the Ising model The material is presented in a way that is at once intuitive systematic and mathematically rigorous The theoretical part is supplemented with concrete examples and exercises Mathematical Foundations of Statistical Mechanics A. Ya. Khinchin,2013-01-17 Phase space ergodic problems central limit theorem dispersion and distribution of sum functions Chapters include Geometry and Kinematics of the Phase Space Reduction to the Problem of the Theory of Probability and more *Stochastic Dynamics and Boltzmann Hierarchy* Dmitriĭ Ii̐Ai̐kovlevich Petrina,2009 This book starts with a survey of results concerning existence of solutions of the BBGKY hierarchy for a system of hard spheres It is followed a by a justification of the Boltzmann Grad limit b a derivation of the stochastic dynamics from the Hamiltonian dynamics of hard spheres in the Boltzmann Grad limit and c a derivation of the Ito Liouville equation In the next chapter the stochastic Boltzmann hierarchy with boundary conditions is derived from the stochastic dynamics of point particles Subsequently the existence of solutions of the stochastic Boltzmann hierarchy is proved and the property of chaos is established and these results are used to deduce the Boltzmann equation Book Jacket **Stochastic Dynamics and Boltzmann Hierarchy** Dmitri Ya. Petrina,2009-07-14 The monograph is devoted to one of the most important trends in contemporary mathematical physics the investigation of evolution equations of many particle systems of statistical mechanics The book systematizes rigorous results obtained in this field in recent years and it presents contemporary methods for the investigation of evolution equations of infinite particle systems The book is intended for experts in statistical physics mathematical physics and probability theory and for students of universities specialized in mathematics and physics *Dynamical Systems, Ergodic Theory and Applications* L.A. Bunimovich,S.G. Dani,R.L. Dobrushin,M.V. Jakobson,I.P. Kornfeld,N.B. Maslova,Ya.B. Pesin,J. Smillie,Yu.M. Sukhov,A.M. Vershik,2000-04-05 This EMS volume the first edition of which was published as Dynamical Systems II EMS 2 familiarizes the reader with the fundamental ideas and results of modern ergodic theory and its applications to dynamical systems and statistical mechanics The enlarged and revised second

edition adds two new contributions on ergodic theory of flows on homogeneous manifolds and on methods of algebraic geometry in the theory of interval exchange transformations   **Many-Particle Dynamics and Kinetic Equations** C. Cercignani,U.I. Gerasimenko,D.Y. Petrina,2012-12-06 As our title suggests there are two aspects in the subject of this book The first is the mathematical investigation of the dynamics of infinite systems of in teracting particles and the description of the time evolution of their states The second is the rigorous derivation of kinetic equations starting from the results of the aforementioned investigation As is well known statistical mechanics started in the last century with some papers written by Maxwell and Boltzmann Although some of their statements seemed statistically obvious we must prove that they do not contradict what me chanics predicts In some cases in particular for equilibrium states it turns out that mechanics easily provides the required justification However things are not so easy if we take a step forward and consider a gas is not in equilibrium as is e g the case for air around a flying vehicle Questions of this kind have been asked since the dawn of the kinetic theory of gases especially when certain results appeared to lead to paradoxical conclu sions Today this matter is rather well understood and a rigorous kinetic theory is emerging The importance of these developments stems not only from the need of providing a careful foundation of such a basic physical theory but also to exhibit a prototype of a mathematical construct central to the theory of non equilibrium phenomena of macroscopic size   **Linear infinite-particle operators** V. A. Malyshev Robert Adol_fovich Minlos,1995-02-13 The main subject of this book can be viewed in various ways From the standpoint of functional analysis it studies spectral properties of a certain class of linear operators from the viewpoint of probability theory it is concerned with the analysis of singular Markov processes and from the vantage point of mathematical physics it analyzes the dynamics of equilibrium systems in quantum statistical physics and quantum field theory Malyshev and Minlos describe two new approaches to the subject which have not been previously treated in monograph form They also present background material which makes the book accessible and useful to researchers and graduate students working in functional analysis probability theory and mathematical physics   *Mathematical Foundations of Statistical Mechanics* A. Ya. Khinchin,1949-06-01 The translation of this important book brings to the English speaking mathematician and mathematical physicist a thoroughly up to date introduction to statistical mechanics It offers a precise and mathematically rigorous formulation of the problems of statistical mechanics as opposed to the non rigorous discussion presented in most other works It provides analytical tools needed to replace many of the cumbersome concepts and devices commonly used for establishing basic formulae and it furnishes the mathematician with a logical step by step introduction which will enable him to master the elements of statistical mechanics in the shortest possible time After a historical sketch the author discusses the geometry and kinematics of the phase space with the theorems of Liouville and Birkhoff the ergodic problem in the sense of replacing time averages by phase averages the theory of probability central limit theorem ideal monatomic gas foundation of thermodynamics and dispersion and distribution of sum functions An excellent introduction to the difficult and important

discipline of Statistical Mechanics It is clear concise and rigorous There is a very good chapter on the ergodic theorem with a complete proof and a highly lucid chapter on statistical foundations of thermodynamics useful to teachers and to mathematicians M Kac Quarterly of Applied Mathematics *C*-Algebras and Mathematical Foundations of Quantum Statistical Mechanics* Jean-Bernard Bru,Walter Alberto de Siqueira Pedra,2023-06-16 This textbook provides a comprehensive introduction to the mathematical foundations of quantum statistical physics It presents a conceptually profound yet technically accessible path to the C algebraic approach to quantum statistical mechanics demonstrating how key aspects of thermodynamic equilibrium can be derived as simple corollaries of classical results in convex analysis Using C algebras as examples of ordered vector spaces this book makes various aspects of C algebras and their applications to the mathematical foundations of quantum theory much clearer from both mathematical and physical perspectives It begins with the simple case of Gibbs states on matrix algebras and gradually progresses to a more general setting that considers the thermodynamic equilibrium of infinitely extended quantum systems The book also illustrates how first order phase transitions and spontaneous symmetry breaking can occur in contrast to the finite dimensional situation One of the unique features of this book is its thorough and clear treatment of the theory of equilibrium states of quantum mean field models This work is self contained and requires only a modest background in analysis topology and functional analysis from the reader It is suitable for both mathematicians and physicists with a specific interest in quantum statistical physics Foundations of Classical and Quantum Statistical Mechanics R. Jancel,2013-10-22 Foundations of Classical and Quantum Statistical Mechanics details the theoretical foundation the supports the concepts in classical and quantum statistical mechanics The title discusses the various problems set by the theoretical justification of statistical mechanics methods The text first covers the the ergodic theory in classical statistical mechanics and then proceeds to tackling quantum mechanical ensembles Next the selection discusses the the ergodic theorem in quantum statistical mechanics and probability quantum ergodic theorems The selection also details H theorems and kinetic equations in classical and quantum statistical mechanics The book will be of great interest to students researchers and practitioners of physics chemistry and engineering Foundations of the Probabilistic Mechanics of Discrete Media D. R. Axelrad,2016-03-16 This latest volume in the Foundations Philosophy of Science Technology series provides an account of probabilistic functional analysis and shows its applicability in the formulation of the behaviour of discrete media with the inclusion of microstructural effects Although quantum mechanics have long been recognized as a stochastic theory the introduction of probabilistic concepts and principles to classical mechanics has in general not been attempted In this study the author takes the view that the significant field quantities of a discrete medium are random variables or functions of such variables Hence the probabilistic mechanics of discrete media are based on the mathematical theory of probability and the axiomatics of measure theory Lectures on Mathematical Statistical Mechanics Stefan Adams,2006 **Quantum Logic in Algebraic Approach** Miklós Rédei,2013-03-09 This work

has grown out of the lecture notes that were prepared for a series of seminars on some selected topics in quantum logic The seminars were delivered during the first semester of the 1993 1994 academic year in the Unit for Foundations of Science of the Department of History and Foundations of Mathematics and Science Faculty of Physics Utrecht University The Netherlands while I was staying in that Unit on a European Community Research Grant and in the Center for Philosophy of Science University of Pittsburgh U S A where I was staying during the 1994 1995 academic year as a Visiting Fellow on a Fulbright Research Grant and where I also was supported by the Istvan Szechenyi Scholarship Foundation The financial support provided by these foundations by the Center for Philosophy of Science and by the European Community is greatly acknowledged and I wish to thank D Dieks the professor of the Foundations Group in Utrecht and G Massey the director of the Center for Philosophy of Science in Pittsburgh for making my stay at the respective institutions possible I also wish to thank both the members of the Foundations Group in Utrecht especially D Dieks C Lutz F Muller J Uffink and P Vermaas and the participants in the seminars at the Center for Philosophy of Science in Pittsburgh especially N Belnap J Earman A Janis J Norton and J   Mathematical Foundations Of Nonextensive Statistical Mechanics Sabir Umarov,Tsallis Constantino,2022-03-03 The book is devoted to the mathematical foundations of nonextensive statistical mechanics This is the first book containing the systematic presentation of the mathematical theory and concepts related to nonextensive statistical mechanics a current generalization of Boltzmann Gibbs statistical mechanics introduced in 1988 by one of the authors and based on a nonadditive entropic functional extending the usual Boltzmann Gibbs von Neumann Shannon entropy Main mathematical tools like the q exponential function q Gaussian distribution q Fourier transform q central limit theorems and other related objects are discussed rigorously with detailed mathematical rational The book also contains recent results obtained in this direction and challenging open problems Each chapter is accompanied with additional useful notes including the history of development and related bibliographies for further reading

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